INFRARED IC HEATER

User Manual

Model: T962/T-962A

INFRARED IC HEATER

1. Description of products ：

INFRARED IC HEATER T962/T-962A works automatically by micro-computer control. We adopt fast infrared radiation for heating and circular-wind to do temperature equalization, so the temperature in the drawer is very accurately and equilibrium.

It is easy to use and the whole soldering process will be done automatically.

It can satisfy dissimilarity soldering-request of SMD、BGA and can soldering the most smart small part. It also can do two-side soldering for the PCB board.

The faintness controlling technique and viualization-drawer workbench, make the whole soldering process completed at your observation.

The highly dependable design, make you gratified and reassurance when using it.

2. Products features

(1). Big cubage soldering area

The soldering max area of T-962 is 180×230mm;

And soldering max area of T-962A is 300×320mm.

(2) Many choices of temperature wave

There are eight kinds of temperature parameter waves provided for you to choose, you also can operate the machine with HM-Heating. And there is cooling fan with the machine. Whole soldering process will be complete automatically. It's very easy to operate

(3) Special heat up and temperature equalization with all design.

Output the power reaches to 800W (T-962)/1500W (T-962A), fast infrared radiation combined with wind-circulation, make the temperature in the drawer more exact and equality. Whole soldering process to be completed automatically according to temperature parameter waves you choose.

(4) Humanized science and technology exquisite article.

Firm of external appearance, operation with visualization, hail-

fellow operation interface, the perfect temperature wave project, from start to eventually display that the science and technology is the root. The light weight and small cubage will save more money for you, the desk-top placed, can also save more space for you. The simple operating instructions make you use the machine easily.

(5) Perfect function choice.

With the function “return soldering, drying, heat preservation, cooling quickly” on the machine. It can soldering the most smart small part, as CHIP、SOP、PLCC、QFP、BGA etc.; It can used to turn the product gum-solid, the circuit board is hot aging, the PCB plank maintains and various works. It will be satisfied to each kind of business enterprise, companies extensively develop and the small quantity demand of production.

(6)Technic parameter

	T-962	T-962A
Soldering max area	18×23.5cm	30×32cm
Size	31×29×17cm	43×37×26cm
Picking size	36×23×36cm	50×43×33cm
Supply voltage	AC110V/50~60Hz AC220V/50~60Hz	
Rated power	800W	1500W
Process period	1~8min	
Net weight	6.2KG	13.5KG
Gross weight	7.5KG	15.5KG

3. Select the wave

(1)Place the machine on an appropriate level, insulated work area.

(2)Make sure the work space is well ventilated (exhaust fans may be necessary).

(3)Allow at least 20mm between the machine and its surroundings for heat protection.

(4)Confirm the work drawer opens and closes smoothly and without obstruction.

(5)Locate supplied universal power cord and connect same from rear apron to AC power.

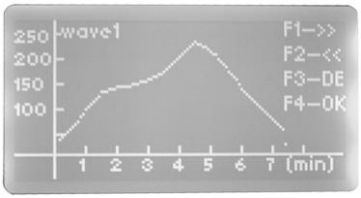
(6)Locate and press the power on button, the LCD will light, the machine will log on.

Press “s” button, the main menu will appear on LCD.

Press “F4” button, select English Menu

In the main menu

Press “F3” button selection different temperature wave: for example select wave 1:

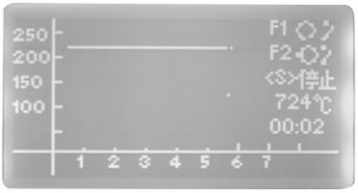


Press “F3” button again, you can see parameter about you choose the temperature wave:

Select: soldering paster sort, soldering temperature, time etc. example:

When selections are complete, then press “F4” button to return previous page. Press the temperature wave that the”F1” key carries out to make selection automatically. When it is ending, the work will shut down automatically, warning buzzer is working.

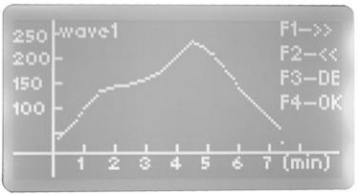
In the main menu page, press “F2” button by handcraft operation



Press “F1” button to start cooling, Press F1/S key again to stop. Press “F2” button to start heat up**,** Press F2/S key again to stop.

The wave select

1. Press the “S”button selection operation interface after switch on, press the “F4” selections a different language category.



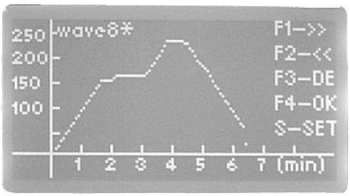
2. Following we provide eight different waves, please choose one according to your request. Press the F1/F2 to choose different wave, press F3 to look into different wave parameter, press F4 to confirm the wave you choose.

Wave one; use the same with 85Sn/15Pb 70 Sn/30Pb

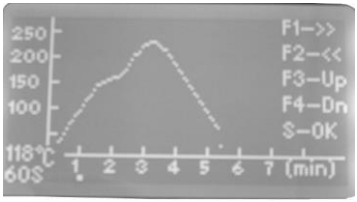
Wave two; use the same with 63Sn/37Pb 60 Sn/40Pb

Wave three, use the same with Sn/Ag3.5 Cu 75 Sn/Ag4.0/Cu.5

Wave four, use the same with Sn/Ag2.5/Cu.8/Sb.5 Sn/Bi3.0/Ag3.0
Wave five, use the same with **The red gum standard is solid to turn temperature wave,Heraeus PD955M.**
Wave six, use the same with The PCB circuit board returns to fix etc.
Wave seven & eight ,use the same with the wave cycle set-up by yourself.



Press “s” button to the temperature page.



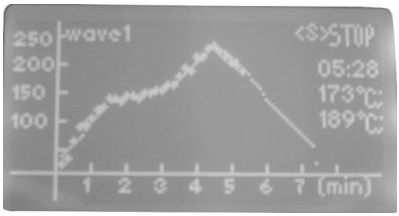
Press F1/F2 button, ahead/ backwards select different time. Press F3/F4 button, up/down to select different temperature, Press “s” button to save.

When save finish, press F4 button to select the temperature wave. Press S button to **repetition.**

4. Operating instructions

(1) Lightly puts the product which will be processed in the drawer of the oven on the stage, Close drawer, press F1 to switch on, The automatic performance make selection of heat wave, Show current performance time, the enactment temperature and measure

temperature on the LCD screen, and automatically note the formed wave of the temperature.



(2) The whole process is in your supervision, you may see it by the window of the drawer, and you may see the data from the LCD screen. If the wave doesn't achieve your request, please modify the data by yourself.

(3) The pre-set up wave cycle is according to the temperature that the different solder paste needs.You can pre-set up other wave cycle according to your needs.

(4) In the process, you can press "S" to force to stop; When finished, the exhaust fan will work automatically to cool, you also can force to turn on the exhaust fan.

(5) Complete the soldering, if somewhere is faulty, you can sold it automatically again, or you can sold it manual.

5. Operation suggests：

(1) To satisfy the need of soldering both sides of the PCB, there is a particular designed fan duct in the machine. When the both sides of the PCB are of large difference in temperature, it can solder the patch in one side, and in the same time, it can keep another side of the PCB as well. To satisfy the soldering of the small board, please pre-put a PCB board in the size of 10cm*10cm, when soldering the small board and the solder-ball. It will make the soldering effect very well.

(2) When use the machine, please pre-heat it if the environment is in low temperature, too humidity. The method: after choosing the wave cycle, run the machine with nothing in the drawer at the first time.

(3) Attention: The machine can't be used to soldering the chips (the chips which with metal encapsulation are of strong glisten), and the "plastic plug in board" which can't be able to bear the temperature

of 250 degree centigrade.

(4) About the method to measure the temperature of the machine: Use the standard weatherglass. Fix the probe on the face of the PCB board (make sure it is the face), then put the PCB board into the drawer, close the drawer. And then you will get the actual temperature.

6. Daily maintenance：

(1).Keep the drawer clear. When used the machine several times, please turn on the “heat-up” and the “exhaust fan” two or three minutes to make the flux remained in the machine volatilization. It will keep the inside of the machine clean, and make the function of the machine stabilization.

(2).Clean the drawer observation glass as necessary.

7. Caution!

(1)Make sure the power supply is connect with earth.

(2)Do not turn off the switch at once after using, make sure the machine is cooling, and then turn off the switch and cut the power supply.

(3)There isn’t any way to do smoke evacuation, please put the machine in a ventilated condition to avoid poisoning (when the solder paste volatilization).

(4)The insulations in the machine had been treated strictly. Do not take apart the machine until there is any safe protection